
Aeronavtika - Dodatki za okrogle in pravokotne električne in optične konektorje - 066. del: Kabelska spojka, tip K, 90°, za toplotno skrčljive dele, oklopljena, tesnjena - Standard za proizvod

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 066: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed - Product standard

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 066: Endgehäuse, Bauform K, 90°, für wärmeschrumpfende Bauteile, Schirmanschluß, abgedichtet, selbstsichernd - Produktnorm

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Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 066 : Raccord, type K, coudé 90°, blindé, étanche, pour manchon thermorétractable - Norme de produit

Ta slovenski standard je istoveten z: EN 3660-066:2017

ICS:

| | | |
|-----------|--|--|
| 31.220.99 | Druge elektromehanske komponente | Other electromechanical components |
| 49.060 | Letalska in vesoljska električna oprema in sistemi | Aerospace electric equipment and systems |

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EUROPEAN STANDARD

EN 3660-066

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2017

ICS 49.060

English Version

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 066: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed - Product standard

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This European Standard was approved by CEN on 23 January 2017.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 3660-066:2017) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this European Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2018, and conflicting national standards shall be withdrawn at the latest by March 2018.

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EN 3660-066:2017 (E)**1 Scope**

This European Standard defines a range of cable outlets, style K, 90°, shielded, sealed for heat shrinkable boot, for use with memory metal rings under the following conditions.

The mating connectors are listed in EN 3660-002.

| | | |
|--------------------|---------|---|
| Temperature range, | Class N | : – 65 °C to 200 °C |
| | Class K | : – 65 °C to 200 °C |
| | Class W | : – 65 °C to 175 °C |
| | Class T | : – 65 °C to 175 °C (Nickel PTFE plating) |
| | Class Z | : – 65 °C to 175 °C (Zinc nickel plating) |

Associated electrical accessories : EN 3660-034 memory metal rings (for shield termination backshells).

These cable outlets are designed for termination of overall shielding braid or individual cable shields. They accommodate/permit the termination of heat shrinkable boots.

2 Normative references **STANDARD PREVIEW** (standards.iteh.ai)

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2591-100*, *Aerospace series - Elements of electrical and optical connection - Test methods - Part 100: General*

EN 2997 (series), *Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures - 65 °C to 175 °C continuous, 200 °C continuous, 260 C peak*

EN 3646 (series), *Aerospace series - Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous*

EN 3660-001, *Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 001: Technical specification*

EN 3660-002, *Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 002: Index of product standards*

* All its parts quoted in this European Standard.

EN 3660-034, *Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 034: Memory metal rings, style Z, for the attachment of screens - Product standard*

EN 60529, *Degrees of protection provided by enclosures (IP Code) (IEC 60529)*

AS85049, *Connector accessories, electrical general specification for- 1)*

A-A-59569, *Braid, wire (copper, tin-coated, silver-coated, or nickel coated, tubular or flat)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 3660-001 apply.

4 Characteristics

4.1 Dimensions and mass

For dimensions and mass, see Figures 1 and 2 and Tables 1, 2 and 3.

For cable entry dimensions, see 4.2.

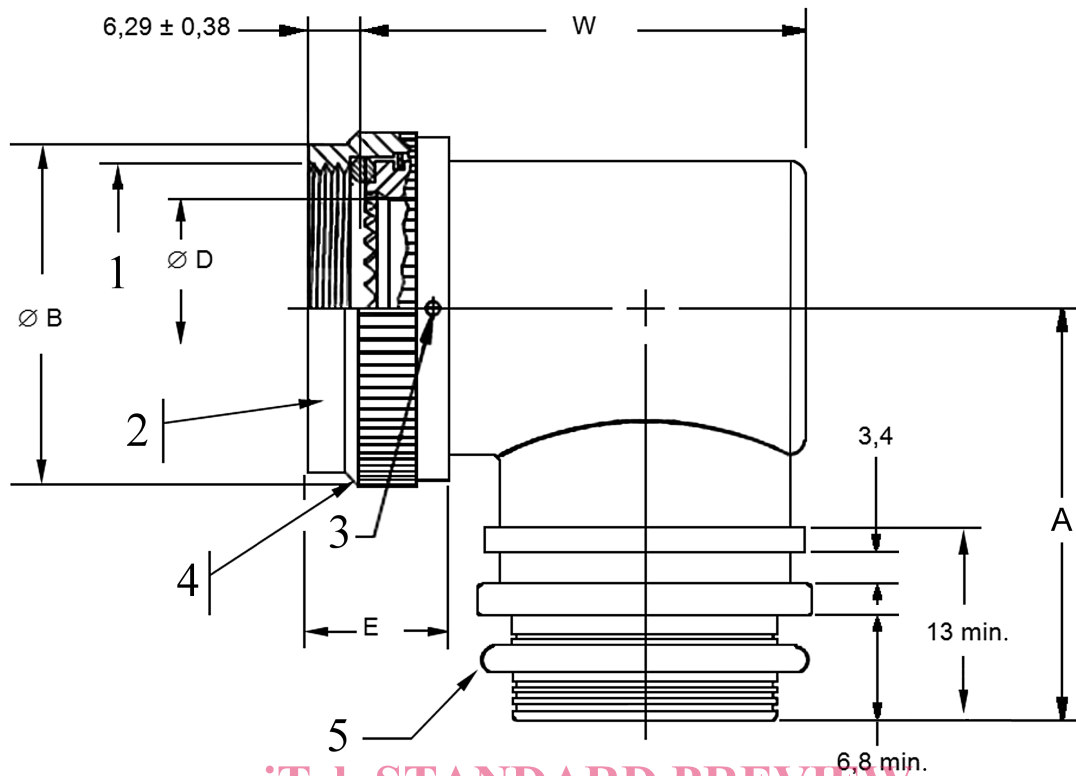
Dimensions are in millimetres.

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1) Published by: SAE National (US) Society of Automotive Engineers. ([http:// www.sae.org/](http://www.sae.org/))



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Key

- 1 Thread C
- 2 Marking
- 3 Three equally spaced holes 1 mm diameter for locking wire
- 4 Straight knurl, pitch manufacturers option
- 5 EN 3660-034 memory metal ring

NOTE Valley of start tooth to be at vertical centre line of accessory at position shown:

- Within $\pm 3^\circ$ for shell sizes 08-12,
- Within $\pm 2^\circ$ for shell sizes 14-18,
- Within $\pm 1^\circ$ for shell sizes 20 and larger.

Cable outlets may be manufactured as cast, fabricated or machined (manufacturers option).

No sharp edges/burrs permissible on internal surfaces/joints. Surface finish of $\sqrt{1,6 \mu\text{m max.}}$ on all internal surfaces.

Figure 1 — Cable outlet

Table 1 — Fixed dimensions of shell

Dimensions in millimetres

| Shell size | Entry size max. | Cable dia. (ref.) max. | C Thread | A max. | ØB max. | ØD min. | E max. | W max. |
|------------|--------------------|---------------------------|--------------|-----------|------------|------------|-----------|-----------|
| 08 | 04 | 5,4 | 0,500-20UNEF | 27,9 | 19,1 | 6,35 | 14,5 | 28,4 |
| 10 | 06 | 8,1 | 0,625-24UNEF | 29,5 | 21,6 | 9,53 | 14,5 | 31,8 |
| 12 | 08 | 10,8 | 0,750-20UNEF | 31,0 | 25,4 | 12,70 | 14,5 | 35,1 |
| 14 | 08 | 10,8 | 0,875-20UNEF | 32,5 | 29,2 | 12,70 | 14,5 | 35,1 |
| 16 | 10 | 13,5 | 1,000-20UNEF | 34,3 | 31,8 | 15,87 | 14,5 | 38,1 |
| 18 | 12 | 16,2 | 1,062-18UNEF | 35,6 | 35,6 | 19,05 | 14,5 | 41,1 |
| 20 | 14 | 18,9 | 1,188-18UNEF | 37,1 | 38,1 | 22,23 | 14,5 | 44,5 |
| 22 | 16 | 21,6 | 1,312-18UNEF | 38,9 | 41,9 | 25,40 | 14,5 | 47,5 |
| 24 | 18 | 24,3 | 1,438-18UNEF | 40,4 | 44,5 | 28,57 | 14,5 | 50,8 |

Table 2 — Mass for classes K, N, W, T and Z

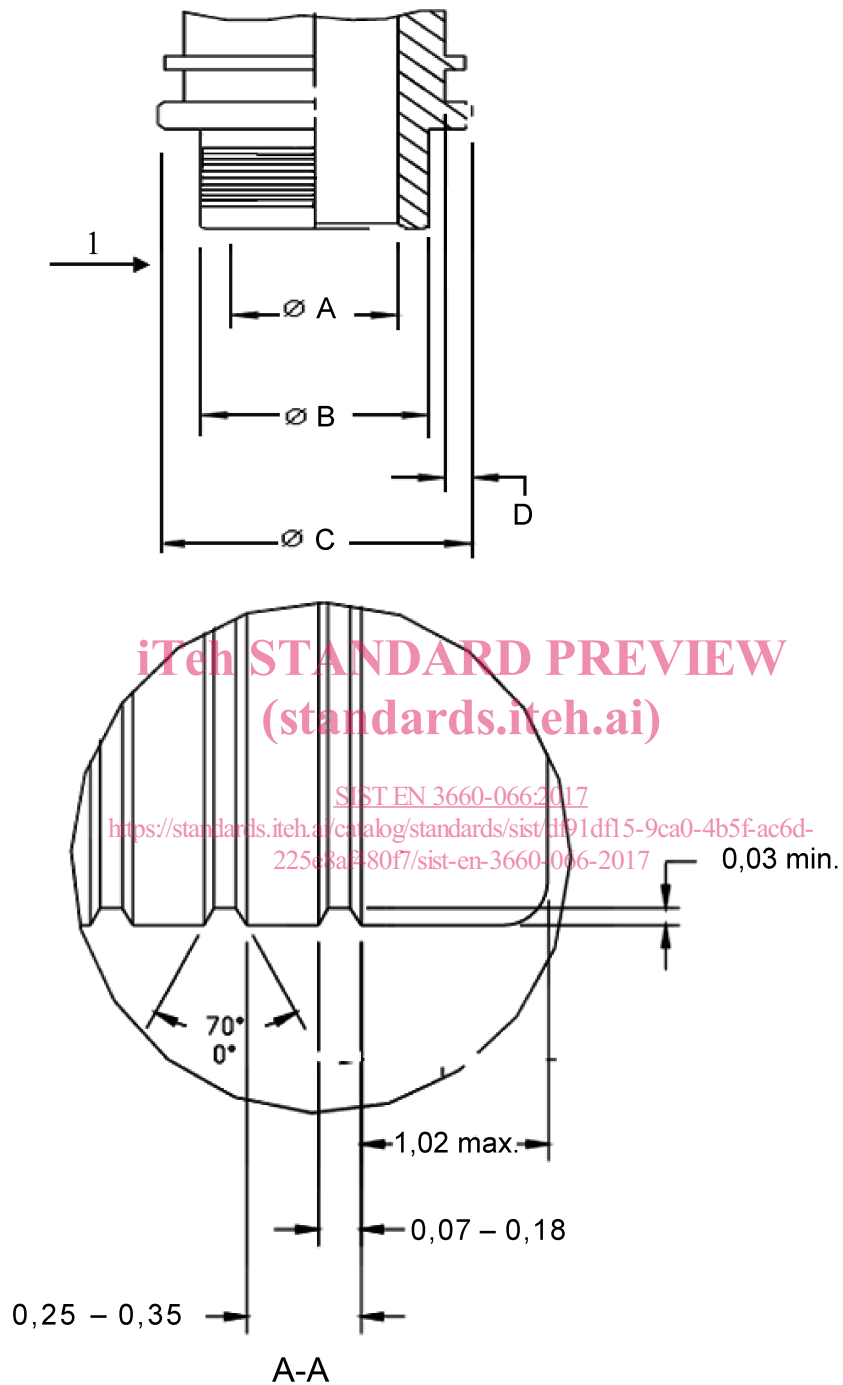
Mass in grams

| Shell size code | End-fitting - size code (standards.iteh.ai) | | | | | | | | | | Classes | |
|-----------------|--|-------|-------|----|-------|--------|--------|--------|--------|--------|---------|------------|
| | 04 | 05 | 06 | 07 | 08 | 10 | 12 | 14 | 16 | 18 | | 20 |
| 08 | 11,20 | — | — | — | — | — | — | — | — | — | — | N, T, W, Z |
| | 31,10 | — | — | — | — | — | — | — | — | — | — | K |
| 10 | 13,10 | 14,20 | 16,00 | — | — | — | — | — | — | — | — | N, T, W, Z |
| | 36,30 | 39,35 | 44,32 | — | — | — | — | — | — | — | — | K |
| 12 | 15,10 | — | 17,65 | — | 21,15 | — | — | — | — | — | — | N, W, Z, |
| | 41,85 | — | 48,90 | — | 58,60 | — | — | — | — | — | — | K |
| 14 | 17,30 | — | 19,95 | — | 22,85 | — | — | — | — | — | — | N, T, W, Z |
| | 47,95 | — | 55,26 | — | 63,30 | — | — | — | — | — | — | K |
| 16 | 19,80 | — | 22,60 | — | 25,50 | — | — | — | — | — | — | N, T, W, Z |
| | 54,85 | — | 62,60 | — | 70,65 | — | — | — | — | — | — | K |
| 18 | — | — | 24,50 | — | 27,40 | — | 34,50 | — | — | — | — | N, T, W, Z |
| | — | — | 67,90 | — | 75,90 | — | 95,60 | — | — | — | — | K |
| 20 | — | — | — | — | 34,75 | — | 42,10 | 47,10 | — | — | — | N, T, W, Z |
| | — | — | — | — | 96,30 | — | 116,65 | 130,50 | — | — | — | K |
| 22 | — | — | — | — | — | 42,95 | — | 51,20 | — | — | — | N, T, W, Z |
| | — | — | — | — | — | 119,00 | — | 141,85 | — | — | — | K |
| 24 | — | — | — | — | — | — | 50,75 | — | 60,30 | 65,50 | — | N, T, W, Z |
| | — | — | — | — | — | — | 140,60 | — | 167,10 | 181,50 | — | K |

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4.2 Cable entry dimensions

See Figure 2 and Table 3.



Key

1 See detail section A-A for surface dimensions

Figure 2 — Cable entry

Table 3

Dimensions in millimetres

| End fitting size code | $\varnothing A$ + 0,25 - 0,5 | $\varnothing B$ | | $\varnothing C$ $\pm 0,5$ | D + 0,2 0 |
|--------------------------|------------------------------------|-----------------|-------|------------------------------|-------------------|
| | | min. | max. | | |
| 04 | 6,4 | 9,39 | 9,56 | 14,0 | 1,12 |
| 05 | 7,9 | 10,97 | 11,13 | 15,5 | 1,12 |
| 06 | 9,5 | 12,57 | 12,73 | 17,1 | 1,12 |
| 07 | 11,1 | 14,12 | 14,31 | 18,7 | 1,12 |
| 08 | 12,7 | 15,72 | 15,91 | 20,3 | 1,12 |
| 10 | 15,9 | 18,84 | 19,11 | 23,5 | 1,12 |
| 12 | 19,1 | 22,02 | 22,28 | 26,7 | 1,75 |
| 14 | 22,2 | 25,17 | 25,46 | 29,8 | 1,75 |
| 16 | 25,4 | 28,34 | 28,63 | 33,0 | 1,75 |
| 18 | 28,6 | 31,52 | 31,81 | 36,2 | 1,75 |
| 20 | 31,8 | 34,69 | 34,98 | 39,4 | 1,75 |

NOTE The cable outlet shall be selected in accordance with the maximum diameter of the cable bundle, see Table 1.

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4.3 Associated connectors

See EN 3660-002.

4.4 Standard AS85049 interface

See Figure 3 and Table 4.

All dimensions are in millimetres.